

# PHENIX WEEKLY PLANNING



12/3/2009

Don Lynch

# Remaining Tasks for Shutdown 2009

## Task

Start Date

End Date

Install new gap5 N cable & pipe supports, cables and piping and leak test piping

in progress

12/3

Close MMN Hatch and closeout WP

Done

Done

Install rack components in RPC3 N racks

in progress

12/30

Attach cables to RPC3 N racks and to Detector  $\frac{1}{2}$  octants

in progress

12/30

Install heaters and thermostat(s) for RPC3N thermal control

in progress

12/30

Reinstall PHENIX North tunnel shielding

in progress

12/3

Replace EC water hoses below EC and test

Done

Done

DC East and West repairs

Done

Done

Pink sheets, white sheets, blue sheets

Done

Done

Assemble shield wall base and wall in AH

Done

Done

Roll in shield wall

Done

Done

Start Run 10, All shutdown activities completed

12/4

12/4



# PHENIX Startup Checklist Status

## Item

## Responsibility

## Status

Item 1: ESRC relevant items completed

Update sweep procedures

Sampson

Done

Settle CM magnet issue

Lynch, Philips,  
Makdisi

In Progress

Pink Sheeting

Haggerty/Giannotti

Done

Add fire alarm enun to Blue sheets

Giannotti

Done

Blue Sheets

CAS, Philips

Done

Flammable Gas leak rates

Pisani

Done

Wood Stairs

Phillips

Post Start

Update ECR

Van Essendelft

Done

Update PHENIX Work Plan

Lynch, Giannotti

Done

Magnetic Safety Review

Phillips

Done

PHENIX Walk Thru

Makdisi

Done

Update Work procedures

Cirnigliaro, Lynch

Post Start

Watch Shifts

O'Brien

Done

Update PHENIX Emergenxcy Procedure

Makdisi

Done

Item 2: Bypass Switch Arc Label

Giannotti

Post Start

12/3/2009

# PHENIX Startup Checklist Status (Cont'd)



## Item

## Responsibility

## Status

Item 3: Storage Area lighting/signage

Lynch

Post Start

Item 4: HBD Mock Up

Lynch

Post Start

Item 5: DAQ Room 480V panel label

Giannotti

Done

Item 6: Power cables near AHU-7 and 8-H

Giannotti

Done

Item 7: Emergency Door from IR

Philips

Done

Item 8: HV cables near BB2-HV

Giannotti

Done

Item 9: Chains on ladder entrances

Biggs

Done

Item 10: Steel plates on CM Bridge

Biggs

Done

Item 11: Fire Pull Box

Philips

Post Start

Item 12: Dumb Waiter

Lynch

Post Start

Item 13: Signal ground wire

Giannotti

Done

Item 14: Loud Speaker nuts

Giannotti

Done

Item 15: Ladder barrier

Biggs

Done

Item 16: Gas line labels

Biggs

Done

Item 17: Magnet signs

Philips

?

Item 18: Checkoff list complete

Giannotti

When all else  
is done

12/3/2009

TECHNICAL SUPPORT NOON

# Goal for RPC3 North before run start.

Need humidity gas as soon as possible to prevent the RPC gas gap dry out.

- Argon or Nitrogen with humidity
- Freon needed later

## Electronics for RPC3 readout

- AC power to rack / LV power module (megapack)
- Install electronic modules into the rack
- Signal ribbon & LV power cables
- Cable tray at bottom

## High Voltage system

- Install HV main frame and modules
- HV cables.

# Continuing Tasks currently underway

## Task

Start Date End Date

AH Crane 110 switch for lockout

Get AC's installed in mixing house

Run gas lines to North tunnel

Design and build gas humidifier

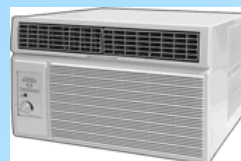
Layout and build North distribution panel

Design and build heat exchanger for HBD system

Replace/ regenerate HBD purifier and driers (late Fall)

Send mass flowmeters out for recalibration (DC/PC, MuID, TOF.W)

Replace/upgrade gas house PC's



In Progress

?

In Progress

12/4

In Progress

12/3

In Progress

12/3

In Progress

12/3

In Progress

12/1

In Progress

12/1

In Progress

12/1

In Progress

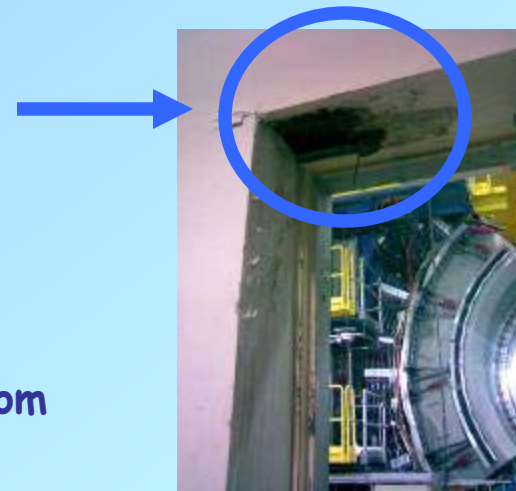
12/1



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## 2009 Building Maintenance Issues

- Roof leaks in utility bathroom at northwest corner behind tech offices and over door between rack room and assembly hall
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- General maintenance for Trailer Offices and Gas Mixing House stairs, ramps and siding, gutters, etc. (cleaning and repairing worn/rotted wood): Carter has placed work orders



#### 4. PHENIX Procedure Review Current Status:

##### 147 Procedures Identified

80 Made Inactive (not currently in use, will require revision to re-activate if and when necessary, available for reference purposes)

12 CAD procedures relevant to PHENIX, all are current and up-to-date  
All currently under review, 3 to be de-activated

40 PHENIX approved procedures.  
6 (-4) are currently under review  
34 (+4) are current and up-to-date

15 Proposed/Draft Procedures (never previously formalized)

## Technical Support during Run 10:

- *Mechanical, Electrical & Gas system support*
- *Design, engineering, fabrication and testing for new beampipe*
- *Design, engineering, mechanical, electrical and gas system support for VTX, VTX support structure, VTX survey and VTX installation*
- *Mechanical, electrical & gas system support for RPC factory*
- *Engineering, design, procurement & fabrication for RPC3 South installation*
- *Facility planning maintenance & upgrade*
- *Mechanical, electrical and gas system support for future maintenance, repair & upgrades*

## Technician Assignments during Run 10 :

- Carter - Overall supervision, 1008 facility management, 2010 shutdown planning, gas system expert*
- Frank - RPC3 N elect. Installation support, 1008 electrical/electronics run support, 2010 shutdown prep (all projects)*
- Kenny - RPC Factory tech support, RPC3 South installation planning and prep*
- Jimmy - 1008 IR mechanical support, VTX installation planning and prep*
- John T. - 1008 & RPC Factory Gas systems tech support, 2010 shutdown prep (all projects)*
- Mike L. - HBD run support, VTX assembly tech support, VTX integration planning, all upgrades mech tech support at 510*
- Sal - 1008 electrical/electronics run support, all upgrades elect. tech support at 510*
- <??> - 1008 general tech support, 2010 shutdown prep general tech support*

## Run 10 and shutdown 2010 Tasks

Start Date End Date

Run 10	12/1	6/1
VTX Fabrication and Installation Plan	12/1	12/31
RPC3 South Fabrication and Installation Plan	12/1	12/31
Receive New Beampipe	12/1	12/31
Design Beam pipe supports	12/1	12/31
Update RPC3 N design for RPC3 S	12/1	12/31
Design support structure, alignment scheme for VTX	12/1	1/31
Star of Run Party	12/11	12/11
Fabricate beam pipe supports	1/1	4/1
Beampipe NEG coating (CERN)	1/1	5/1
Fabricate/procure parts for RPC3 S installation	1/1	4/1
Fabricate/procure parts for VTX installation	2/1	5/1
End of run 10	6/1	6/1
Prep IR for shutdown	6/1	7/1
Complete unfinished business for MuTrgr FEE & RPC3 North	6/1	8/1
Install Beam pipe	7/1	10/1
Install VTX	8/1	10/1
Install RPC3 South	6/1	10/1

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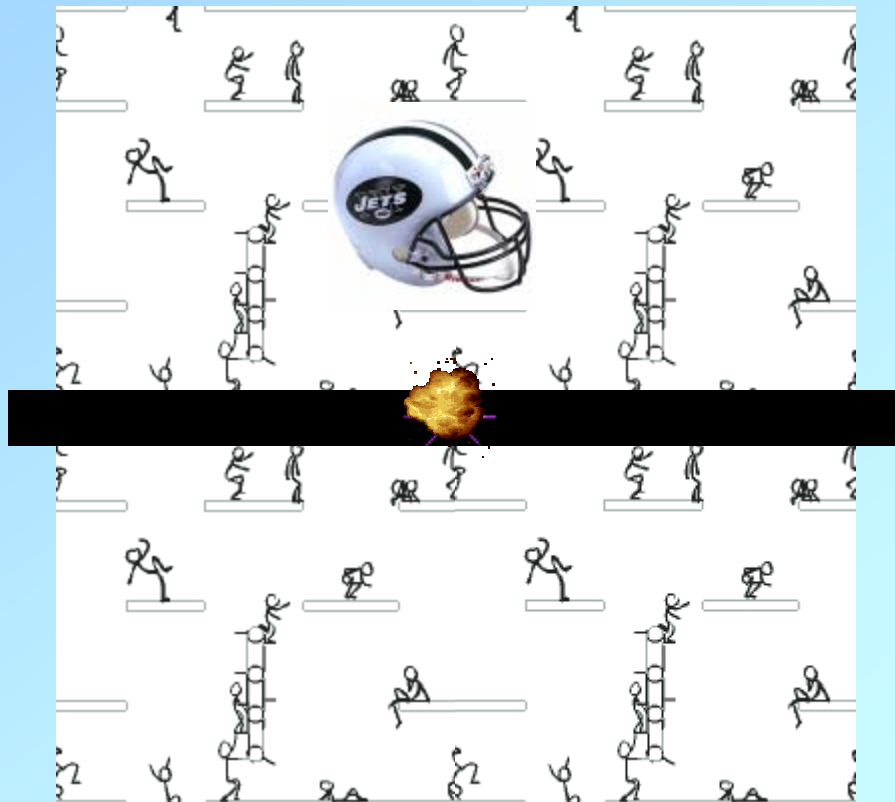
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- 1 Reminder: ODH 1 now in effect in tunnels This requires ODH 1 training (web, good for 1 year) and escape pak training (practical, good for 3 years). Also requires medical waiver form. Each worker in ODH 1 area must have an escape pak and O2 monitor with them at all times.
- 2 To prolong battery life, please remember to turn off your Personal Oxygen Monitor (POM) when not in use.
- 3 Note that the area in the PHOBOS IR around the RHIC abort kickers is now posted as a noise area because of the startle noise level if the kickers go off when you are in the area. Pay attention to these signs and wear hearing protection as you pass through this posted area. Hearing protection is located near the postings.

*Once again  
we're ready to  
race some  
heavy ions*

## Where To Find PHENIX Engineering Info



Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)

